

(12) **United States Patent**
Sugimoto

(10) **Patent No.:** **US 7,355,591 B2**
(45) **Date of Patent:** ***Apr. 8, 2008**

- (54) **INFORMATION PROCESSING APPARATUS
AND INFORMATION OUTPUT
CONTROLLING METHOD**
- (75) Inventor: **Koichi Sugimoto**, Saitama (JP)
- (73) Assignee: **Sony Corporation** (JP)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 514 days.

5,463,725 A 10/1995 Henckel et al.
5,534,888 A 7/1996 Lebby et al.
5,663,748 A 9/1997 Huffman et al.
5,696,982 A 12/1997 Tanigawa et al.
5,710,576 A 1/1998 Nishiyama et al.
5,739,814 A 4/1998 Ohara et al.
5,840,769 A 11/1998 Kolter et al.
5,847,698 A 12/1998 Reavey et al.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **11/109,047**

(Continued)

(22) Filed: **Apr. 19, 2005**

Primary Examiner—Richard Hjerpe

Assistant Examiner—M. Fatahiyar

(65) **Prior Publication Data**

US 2005/0184982 A1 Aug. 25, 2005

(74) *Attorney, Agent, or Firm*—Lerner, David, Littenberg, Krumholz & Mentlik, LLP

Related U.S. Application Data

(63) Continuation of application No. 09/885,224, filed on Jun. 20, 2001, now Pat. No. 6,897,850.

(57) **ABSTRACT**

(30) **Foreign Application Priority Data**

Jun. 22, 2000 (JP) P2000-187081
May 30, 2001 (JP) P2001-161713

The invention provides an information processing apparatus wherein playback of display data and playback of audio data relating to the display data are changed over in an associated relationship with each other in response to an open or closed state of a lid with respect to a housing. The information processing apparatus includes a portable housing having an image display section provided thereon, a lid mounted for opening and closing motion on the housing for covering the display section, a lid opening/closing detection section for detecting opening or closing of the lid with respect to the housing, a display control section for displaying display data on the image display section, an audio playback section for playing back audio data relating to the display data, and a control section for controlling the audio playback section so as to play back, when opening or closing of the lid is detected by the opening/closing detection section, the audio data relating to the display data displayed when the opening or closing of the lid is detected by the lid opening/closing detection section.

(51) **Int. Cl.**

G09G 5/00 (2006.01)
G10L 15/26 (2006.01)
G10L 13/08 (2006.01)

(52) **U.S. Cl.** **345/169**; 345/901; 434/317; 704/235; 704/260

(58) **Field of Classification Search** 345/156–184, 345/901; 434/317; 463/36–39; 704/235, 704/260

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,855,725 A 8/1989 Fernandez
5,233,333 A 8/1993 Borsuk

1 Claim, 14 Drawing Sheets

